

FIGURE 1A

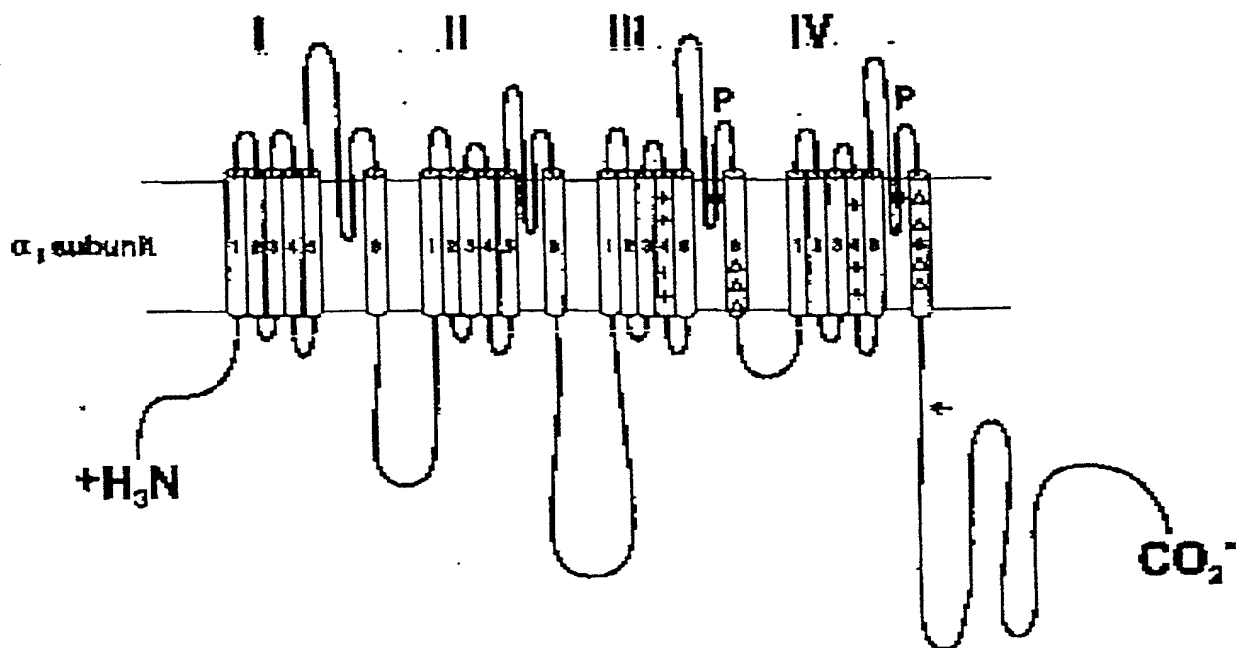


FIGURE 1B

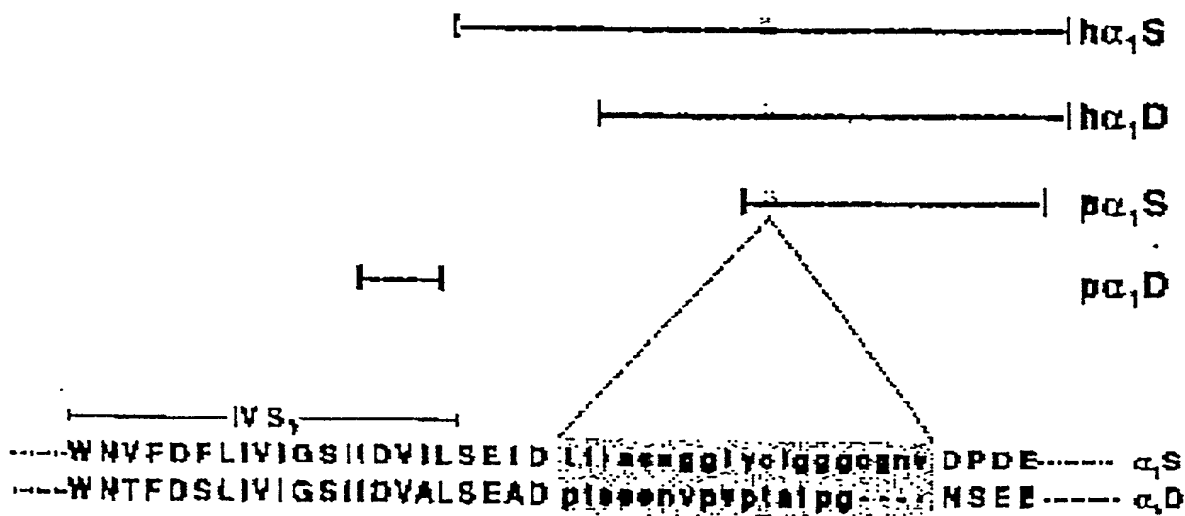


FIGURE 1C



FIGURE 1D

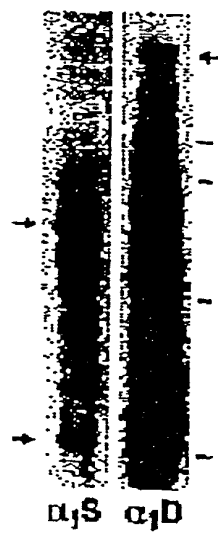


FIGURE 2A

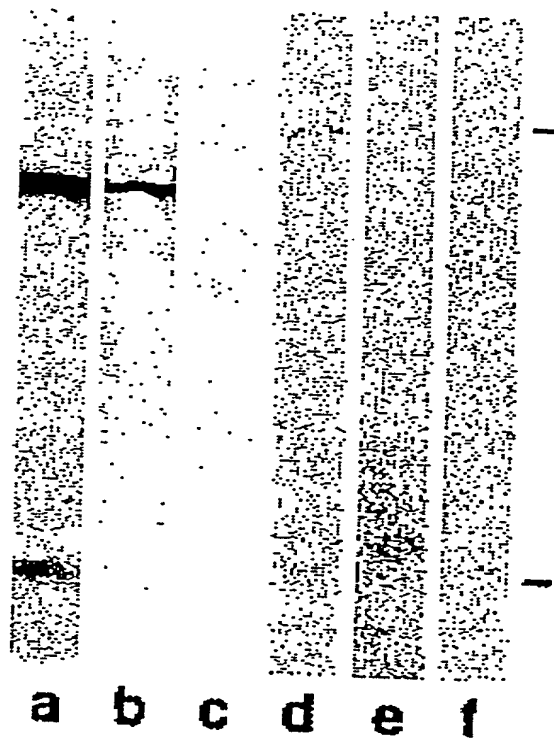


FIGURE 2B

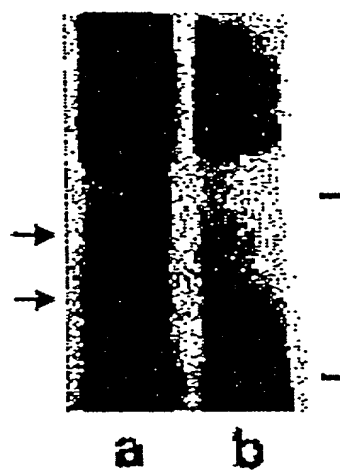


Figure 3

>ref|XM_001910.1| Homo sapiens calcium channel, voltage-dependent, L type,
alpha 1S subunit (CACNA1S), mRNA, Length = 6615

Score = 79.8 bits (40), Expect = 1e-12
Identities = 46/48 (95%)
Strand = Plus / Plus

Query: 1 ctgattgtcatcgccagcatcattgacgtcatcctcagtgagatcgac 48
|||
Sbjct: 3938 ctgattgtcattggcagcatcattgatgtcatcctcagtgagatcgac 3985

Score = 622 bits (314), Expect = e-176
Identities = 462/510 (90%), Gaps = 1/510 (0%)
Strand = Plus / Plus

Query: 49 gaccccgacgagagtgcccgcatctccagcgcttcttccgctgttccgggtcatgagg 108
|||
Sbjct: 4043 gaccagatgagagtgcccgcatctccagcgcttcttccgctgttccggtgtcatgagg 4102

Query: 109 ttgatcaagctgctgagccgcccagggcggtgcgcacgctgctccggaccttcatcaag 168
|||
Sbjct: 4103 ctgatcaagctgctgagccgggcagaaggagtgcaaccctcctgtggacgttcatcaag 4162

Query: 169 tccttccaggccctgccctacgtggctctgctcatcgctcttcttcatctatgct 228
|||
Sbjct: 4163 tccttccaggccctaccctacgtggctctgctcatcgctcttcttcatctacgct 4222

Query: 229 gtcacgcggcatgcagatgtttgggaagatcgccatgggtggacggaaccagataaaccgg 288
|||
Sbjct: 4223 gtcacgcggcatgcagatgtttgggaagatcgccatgggtggatgggacccaaataaaccgg 4282

Query: 289 aacaacaatttccagaccttccctcaggctgtgctgctgctcttcagggtgcgccacgggt 348
|||
Sbjct: 4283 aacaacaacttccagaccttcccacaagctgtgctactgctcttcagggtgtgcaacagg 4342

Query: 349 gaggcgtggcaggagatcctgctggcctgcaggtacggcagctgtgcgaccccgagtca 408
|||
Sbjct: 4343 gaggcctggcaggagatcctactggcctgcagctatgggaagctgtgtgacccagagtca 4402

Query: 409 gactacctccctggggaggagtatacctgcggcaccgacttgcctactactacttcatc 468
|||
Sbjct: 4403 gactatgccccagggaggagtacacatgtggcaccacttgcataactactacttcatc 4462

Query: 469 agcttctacatgctctgtgccttctgatcatcaacctcttgggtgtgatcatggac 528
|||
Sbjct: 4463 agcttctacatgctctgtgccttctggatcatcaacctcttgggtgtgatcatggac 4522

Query: 529 aattttgactacctcaccg-ggactgggtcc 557
|||||
Sbjct: 4523 aattttgactacctcaccgggactgggtcc 4552

>ref|NM_000069.1| Homo sapiens calcium channel, voltage-dependent, L type,
alpha 1S, subunit (CACNA1S), mRNA, Length = 6160

Score = 79.8 bits (40), Expect = 1e-12
Identities = 46/48 (95%)
Strand = Plus / Plus

Query: 1 ctgattgtcatcggcagcatcattgacgtcatcctcagtggatcgac 48
|||||
Sbjct: 3787 ctgattgtcattggcagcatcattgatgtcatcctcagtggatcgac 3834

Score = 622 bits (314), Expect = e-176
Identities = 462/510 (90%), Gaps = 1/510 (0%)
Strand = Plus / Plus

Query: 49 gaccccgacgagagtgcccgcatctccagcgcttcttcgcgctgttccgggtcatgagg 108
|||||
Sbjct: 3892 gacccagatgagagtgcccgcatctccagcgcttcttcgcgctgttccggtgtcatgagg 3951

Query: 109 ttgatcaagctgctgagccgcgcaggaggcgctgcgcacgctgctccggaccttcatcaag 168
|||||
Sbjct: 3952 ctgatcaagctgctgagccgggcagaaggagtgcgaaacctcctgtggagcttcatcaag 4011

Query: 169 tccttccaggccctacgctggtctgctcatcgctcatgctcttcttcatctatgct 228
|||||
Sbjct: 4012 tccttccaggccctacgctggtctgctcatcgctcatgctcttcttcatctacgct 4071

Query: 229 gtcacgagcatgcagatgtttgggaagatcgccatgggtggacggaacccagataaaaccgg 288
|||||
Sbjct: 4072 gtcacgagcatgcagatgtttgggaagatcgccatgggtggatgggacccaaataaaaccgg 4131

Query: 289 aacaacaatttccagaccttccctcaggctgtgctgctgctcttcagggtgcgccacgggt 348
|||||
Sbjct: 4132 aacaacaacttccagaccttcccaagctgtgctactgctcttcagggtgtgcaacagggt 4191

Query: 349 gaggcgtggcaggagatcctgctggcctgcaggtacgggcagctgtgacgaccccgagtc 408
|||||
Sbjct: 4192 gaggcctggcaggagatcctactggcctgcagctatgggaagctgtgtgacccagagtcg 4251

Query: 409 gactacctccctggggaggagtatacctgcccacccgacttcgcctactactacttcatc 468
|||||
Sbjct: 4252 gactatgccccaggggaggagtacacatgtggcaccacacttgcatactactacttcatc 4311

Query: 469 agcttctacatgctctgtgccttctctgatcatcaacctctttgtggctgtgatcatggac 528
|||||
Sbjct: 4312 agcttctacatgctctgtgccttctctggatcatcaacctctttgtggctgtgatcatggac 4371

Query: 529 aattttgactacctcacc-cgactgggtcc 557
|||||
Sbjct: 4372 aattttgactacctcaccgggactgggtcc 4401

>gb|L33798.1|HUMCACNLA Human dihydropyridine-sensitive L-type calcium channel
alpha-1 subunit (CACNL1A3) mRNA, complete cds, Length = 6160

Score = 79.8 bits (40), Expect = 1e-12
Identities = 46/48 (95%)
Strand = Plus / Plus

Query: 1 ctgattgtcatcggcagcatcattgacgtcatcctcagtgagatcgac 48
|||||
Sbjct: 3787 ctgattgtcattggcagcatcattgatgtcatcctcagtgagatcgac 3834

Score = 622 bits (314), Expect = e-176
Identities = 462/510 (90%), Gaps = 1/510 (0%)
Strand = Plus / Plus

Query: 49 gaccccgacgagagtgcgcgcatctccagcgcttcttccgctgttccgggtcatgagg 108
|||||
Sbjct: 3892 gacccagatgagagtgcgcgcatctccagcgcttcttccgctgttccggtgtcatgagg 3951

Query: 109 ttgatcaagctgctgagccgagcagggcggtgacgctgctccggaccttcatcaag 168
|||||
Sbjct: 3952 ctgatcaagctgctgagccgggcagaaggagtgcaaacctcctgtggacgttcatcaag 4011

Query: 169 tccttcaggccctgcctacgtggctctgctcatcgatgctcttcttcatctatgct 228
|||||
Sbjct: 4012 tccttcaggccctaccctacgtggctctgctcatcgatgctcttcttcatctacgct 4071

Query: 229 gtcacggcatgcagatgtttgggaagatcgccatggtggacggaacccagataaacgg 288
|||||
Sbjct: 4072 gtcacggcatgcagatgtttgggaagatcgccctggtggatgggacccaaataaacgg 4131

Query: 289 aacaacaatttcagaccttccctcaggtgtgctgctcttccaggtgagccacgggt 348
|||||
Sbjct: 4132 aacaacaacttcagaccttcccaagctgtgctactgctcttccaggtgtgcaacaggt 4191

Query: 349 gaggcgtggcaggagatcctgctggcctgcaggtacgggagctgtgacgacccgagtc 408
|||||
Sbjct: 4192 gaggcctggcaggagatcctactggcctgcagctatgggaagctgtgtgacccagagtc 4251

Applicant(s): Malouf et al.
Attorney Docket No.: 421/29/2

Query: 469 agcttctacatgctctgtgccttcctgatcatcaacctctttgtggctgtgatcatggac 528
 |||||
 Sbjct: 4312 agcttctacatgctctgtgccttcctggtcatcaacctctttgtggctgtcatcatggac 4371

```
Query: 529  aattttgactacctcaccc-ggactggtcc 557
           |||
Sbjct: 4372 aattttgactacctcacccgggactggtcc 4401
```

Figure 4

>ref|XM_001910.1| Homo sapiens calcium channel, voltage-dependent, L type,
alpha 1S subunit (CACNA1S), mRNA, Length = 6615

Score = 107 bits (54), Expect = 5e-21
Identities = 63/66 (95%)
Strand = Plus / Plus

Query: 1 tggaaatgtgttcgacttcctgattgtcatcggcagcatcattgacgtcatcctcagtga 60
|||||
Sbjct: 3920 tggaaatgtgtttgacttcctgattgtcattggcagcatcattgatgtcatcctcagtga 3979

Query: 61 atcgac 66
|||||
Sbjct: 3980 atcgac 3985

Score = 507 bits (256), Expect = e-141
Identities = 388/432 (89%)
Strand = Plus / Plus

Query: 67 gaccccgacgagagtgcgcgcatctcagcgcttcttcgcgctgttcggggtcatgagg 126
|||||
Sbjct: 4043 gaccagatgagagtgcgcgcatctcagcgcttcttcgcgctgttcggggtcatgagg 4102

Query: 127 ttgatcaagctgctgagccgcccaggggcggtgcgcacgctgctctggaccttcatcaag 186
|||||
Sbjct: 4103 ctgatcaagctgctgagccgggaggaaggagtgcaaccctcctgtggacgttcatcaag 4162

Query: 187 tccttcaggccctgcctacgtggctctgctcatcgctcatgctcttcttcatctatgct 246
|||||
Sbjct: 4163 tccttcaggccctaccctacgtggctctgctcatcgctcatgctcttcttcatctacgct 4222

Query: 247 gtcacggcatgcagatgtttgggaagatcgccatggtggacggaacccagataaaccgg 306
|||||
Sbjct: 4223 gtcacggcatgcagatgtttgggaagatcgccatggtggatgggacccaaataaaccgg 4282

Query: 307 aacaacaatttccagaccttccctcaggctgtgctgctgctcttcagggtgcgccacgggt 366
|||||
Sbjct: 4283 aacaacaacttccagaccttcccacaagctgtgctactgctcttcagggtgtgcaacaggt 4342

Query: 367 gaggcgtggcaggagatcctgctggcctgcaggtacgggcagctgtgcgaccccgagtca 426
|||||
Sbjct: 4343 gaggcctggcaggagatcctactggcctgcagctatgggaagctgtgtgacccagagtcg 4402

Query: 427 gactacctccctggggaggagtatacctgcggcaccgacttcgcctactactacttcac 486
|||||
Sbjct: 4403 gactatgccccagggaggagtacacatgtggcaccacactttgcatactactacttcac 4462

Title: Purified and Isolated Platelet Calcium Channel Nucleic
Acids and Polypeptides and Therapeutic and Screening
Methods Using Same

Applicant(s): Malouf et al.

Attorney Docket No.: 421/29/2

Query: 487 agcttctacatg 498
|||||
Sbjct: 4463 agcttctacatg 4474

Figure 5

>ref|XM_003238.1| Homo sapiens calcium channel, voltage-dependent, L type,
alpha 1D subunit (CACNA1D), mRNA, Length = 7362

Score = 89.7 bits (45), Expect = 1e-15
Identities = 45/45 (100%)
Strand = Plus / Plus

Query: 1 ctcacgcgtaatcggcagcattatagacgtggccctcagcgaagca 45
|||||
Sbjct: 4171 ctcacgcgtaatcggcagcattatagacgtggccctcagcgaagca 4215

Score = 946 bits (477), Expect = 0.0
Identities = 496/500 (99%), Gaps = 2/500 (0%)
Strand = Plus / Plus

Query: 49 aactctgaagagagcaatagaatctccatcaccttttccgctctttccgagtgatgcga 108
|||||
Sbjct: 4264 aactctgaagagagcaatagaatctccatcaccttttccgctctttccgagtgatgcga 4323

Query: 109 ttggtgaagcttctcagcagggggaaggcatcggacattgctgtggacttttattaag 168
|||||
Sbjct: 4324 ttggtgaagcttctcagcagggggaaggcatcggacattgctgtggacttttattaag 4383

Query: 169 tcctttcaggcgctcccgatgtggccctcctcatagccatgctgttcttcatctatgcg 228
|||||
Sbjct: 4384 tcctttcaggcgctcccgatgtggccctcctcatagccatgctgttcttcatctatgcg 4443

Query: 229 gtcattggcatgcagatgtttgggaaagtggccatgagagataacaaccagatcaatagg 288
|||||
Sbjct: 4444 gtcattggcatgcagatgtttgggaaagtggccatgagagataacaaccagatcaatagg 4503

Query: 289 aacaataacttccagacgtttccccaggcggtgctgctgctcttcagggtgtgcaacaggt 348
|||||
Sbjct: 4504 aacaataacttccagacgtttccccaggcggtgctgctgctcttcagggtgtgcaacaggt 4563

Query: 349 gaggcctggcaggagatcatgctggcctgtctcccagggaagctctgtgaccctgagtca 408
|||||
Sbjct: 4564 gaggcctggcaggagatcatgctggcctgtctcccagggaagctctgtgaccctgagtca 4623

Query: 409 gattacaacctcggggaggagtatacatgtgggagcaactttgccattgtctatttcatc 468
|||||
Sbjct: 4624 gattacaaccccgaggaggagtatacatgtgggagcaactttgccattgtctatttcatc 4683

Query: 469 agnttttacatgctctgtgcatttctga-catcaatctgtttgggtgctgtcatcatgga 527
|||
Sbjct: 4684 agnttttacatgctctgtgcatttctgatcatcaatctgttt-gtggctgtcatcatgga 4742

Query: 528 taatttcgactatctgaccc 547
|||||
Sbjct: 4743 taatttcgactatctgaccc 4762

>ref|NM_000720.1| Homo sapiens calcium channel, voltage-dependent, L type,
alpha 1D subunit (CACNA1D), mRNA, Length = 7193

Score = 87.7 bits (44), Expect = 5e-15
Identities = 44/44 (100%)
Strand = Plus / Plus

Query: 1 ctcatcgtaatcggcagcattatagacgtggccctcagcgaagc 44
|||||
Sbjct: 4001 ctcatcgtaatcggcagcattatagacgtggccctcagcgaagc 4044

Score = 946 bits (477), Expect = 0.0
Identities = 496/500 (99%), Gaps = 2/500 (0%)
Strand = Plus / Plus

Query: 49 aactctgaagagagcaatagaatctccatcacctttttccgtcttttccgagtgatgcca 108
|||||
Sbjct: 4094 aactctgaagagagcaatagaatctccatcacctttttccgtcttttccgagtgatgcca 4153

Query: 109 ttggtgaagcttctcagcaggggggaaggcatccggacattgctgtggacttttattaag 168
|||||
Sbjct: 4154 ttggtgaagcttctcagcaggggggaaggcatccggacattgctgtggacttttattaag 4213

Query: 169 tcctttcaggcgctcccgatgtggccctcctcatagccatgctgttcttcatctatgcg 228
|||||
Sbjct: 4214 tcctttcaggcgctcccgatgtggccctcctcatagccatgctgttcttcatctatgcg 4273

Query: 229 gtcattggcatgcagatgtttgggaaagtggccatgagagataacaaccagatcaatagg 288
|||||
Sbjct: 4274 gtcattggcatgcagatgtttgggaaagtggccatgagagataacaaccagatcaatagg 4333

Query: 289 aacaataacttccagacgtttcccaggcggtgctgctcttccaggtgtgcaacaggt 348
|||||
Sbjct: 4334 aacaataacttccagacgtttcccaggcggtgctgctcttccaggtgtgcaacaggt 4393

Query: 349 gaggcctggcaggagatcatgctggcctgtctcccaggaagctctgtgaccctgagtca 408
|||||
Sbjct: 4394 gaggcctggcaggagatcatgctggcctgtctcccaggaagctctgtgaccctgagtca 4453

Query: 409 gattacaacctcggggaggagtatacatgtgggagcaactttgccattgtctatttcac 468
|||||
Sbjct: 4454 gattacaaccccgggaggagtatacatgtgggagcaactttgccattgtctatttcac 4513

```

Query: 528   taatttcgactatctgaccc 547
            |||||
Sbjct: 4573  taatttcgactatctgaccc 4592

```

>[gb|M83566.1|HUMCACH1A](#) Human neuroendocrine/beta-cell-type calcium channel alpha-1 subunit mRNA, complete cds, Length = 7193

Score = 87.7 bits (44), Expect = 5e-15
Identities = 44/44 (100%)
Strand = Plus / Plus

```
Query: 1      ctcatcgtaatcggcagcattatagacgtggccctcagcgaagc 44
             |||
Sbjct: 4001   ctcatcgtaatcggcagcattatagacgtggccctcagcgaagc 4044
```

Score = 946 bits (477), Expect = 0.0
Identities = 496/500 (99%), Gaps = 2/500 (0%)
Strand = Plus / Plus

Query: 49 aactctgaagagagcaatagaatctccatcacctttttccgtcttttccgagtgatgcga 108
 |||
 Sbjct: 4094 aactctgaagagagcaatagaatctccatcacctttttccgtcttttccgagtgatgcga 4153

Query: 109 ttggtgaagcttctcagcagggggaaggcatccggacattgctgtggacttttattaag 168
 |||||
 Sbjct: 4154 ttggtgaagcttctcagcagggggaaggcatccggacattgctgtggacttttattaag 4213

Query: 169 tcctttcaggcgctcccgtatgtggccctcctcatagccatgctgttcttcatctatgcg 228
 |||
 Sbjct: 4214 tcctttcaggcgctcccgtatgtggccctcctcatagccatgctgttcttcatctatgcg 4273

Query: 229 gtcattggcatgcagatgtttgggaaagtggccatgagagataa[•]caaccagatcaatagg 288
 |||||
 Sbjct: 4274 gtcattggcatgcagatgtttgggaaagtggccatgaagagataa[•]caaccagatcaatagg 4333

Query: 289 aacaataaacttccagacgtttccccaggcggtgctgctgctcttcagggtgtgcaacaggt 348
 |||||
 Sbjct: 4334 aacaataaacttccagacgtttccccaggcggtgctgctgctgctcttcagggtgtgcaacaggt 4393

Query: 349 gaggcctggcaggagatcatgctggcctgtctcccaggaagctctgtgacctgagtca 408
 . |||
 Sbjct: 4394 gaggcctggcaggagatcatgctggcctgtctcccaggaagctctgtgacctgagtca 4453

Title: Purified and Isolated Platelet Calcium Channel Nucleic
Acids and Polypeptides and Therapeutic and Screening
Methods Using Same
Applicant(s): Malouf et al.
Attorney Docket No.: 421/29/2

Query: 409 gattacaacctcggggaggagtatacatgtgggagcaactttgccattgtctatttcac 468
|||||
Sbjct: 4454 gattacaacccggggaggagtatacatgtgggagcaactttgccattgtctatttcac 4513
|||||

Query: 469 agnttttacatgctctgtgcatttctga-catcaatctgtttggggtgtcatcatgga 527
|| |||||
Sbjct: 4514 agtttttacatgctctgtgcatttctgatcatcaatctgttt-gtgggtgtcatcatgga 4572
|||||

Query: 528 taatttcgactatctgaccc 547
|||||
Sbjct: 4573 taatttcgactatctgaccc 4592
|||||